

Product datasheet for **RC238349**

HADHB (NM_001281512) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HADHB (NM_001281512) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HADHB
Synonyms:	ECHB; MSTP029; MTPB; TP-BETA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238349 representing NM_001281512
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTATCTTGACTTACCCCTTTAAAAATCTTCCACTGCATCAAATGGGCCCTCAGATTTCCATAA
 GACCTCTGAGCTGTTCTCCAGCTACGAGCTGCCAGCTGTCCAGACAAAACGAAGAAGACGTTAGC
 CAAACCAATATAAGGAATGTTGTGGTGGTGGATGGTGTTCGCACTCCATTTTGTGTCTGGCACTTCG
 GTTTTGTGCATCGGACCAGTGTCCCTAAGGAAGTAGTTGATTATATCATCTTTGGTACAGTTATTCAGG
 AAGTGAACAAGCAATGTGGCTAGAGAGGCTGCCCTGGAGCTGGCTTCTGACAAGACTCCTGCTCA
 CACTGTCAACATGGCTTGTATCTCTGCCAACCAAGCCATGACCACAGGTGTTGGCTTGATTGCTTCTGGC
 CAGTGTGATGTGATCGTGGCAGGTGGTGTGAGTTGATGTCCGATGTCCCTATTCGTCACCAAGGAAAA
 TGAGAAAAGTATGCTTGTATCTCAATAAGGCCAAATCTATGGCCAGCGACTGTCTTAACTCTAAATT
 CCGATTTAATTTCTAGCACCTGAGCTCCCTGCGGTTTCTGAGTTCTCCACAGTGAGACCATGGGCCAC
 TCTGCAGACCGACTGGCCGCTGCCTTTGCTGTTTCTCGGCTGGAACAGGATGAATATGCACTGCGCTCTC
 ACAGTCTAGCCAAGAAGGCACAGGATGAAGGACTCCTTTCTGATGTGGTACCCCTCAAAGTACCAGGAAA
 AGATACAGTTACCAAAGATAATGGCATCCGCTCTTCTCACTGGAGCAGATGGCCAAACTAAAACCTGCA
 TTCATCAAGCCCTACGGCACAGTGACAGCTGCAAAATCTTCTTTCTTGACTGATGGTGCATCTGCAATGT
 TAATCATGGCGGAGGAAAAGGCTCTGGCCATGGGTTATAAGCCGAAGGCATATTTGAGGGATTTTATGTA
 TGTGTCTCAGGATCCAAAAGTCAACTATTACTGGACCAACATATGCTACTCCAAAAGTTCTAGAAAAG
 GCAGGATTGACCATGAATGATATTGATGCTTTTGAATTTTCAAGCTTTCTCGGTCAGATTTTGGCAA
 ATTTTAAAGCCATGGATTCTGATTGGTTTGCAGAAAACATGGGTAGAAAAACCAAGGTTGGATTGCC
 TCCTTTGGAGAAGTTAATAAAGTGGGGTGGATCTCTGTCCTGGGACACCCATTTGGAGCCACTGGCTGC
 AGGTTGGTCATGGCTGCTGCCAACAGATTACGGAAGAAGGAGGCCAGTATGGCTTAGTGCTGCGTGTG
 CAGCTGGAGGGCAGGCCATGCTATGATAGTGAAGCTTATCCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238349 representing NM_001281512
 Red=Cloning site Green=Tags(s)

MTILTYPFKNLPTASKWALRFSIRPLSCSSQLRAAPAVQTKKTLAKPNIRNVVVVDGVRTPFLLSGTS
 GLLHRTSVPKEVVDYIIFGTVIQEVKTSNVAREEALGAGFSDKTPAHTVTMACISANQAMTTGVGLIASG
 QCDVIVAGGVVMSDVPVIRHSRMRKMLDLNKAQSMGQRLSLISKFRFNFLAPELPAVSEFSTSETMGH
 SADRLAAAFVSRLEQDEYALRSHSLAKKAQDEGLLSDVVPFKVPGKDTVTKDNGIRPSSLEQMAKLPKPA
 FIKPYGTVTAANSSFLTDGASAMLEMAEELAMGYKPKAYLRDFMYVSQDPKQQLLGPYATPKVLEK
 AGLTMNDIDAFEFHEAFSGQILANFKAMDSDFEAENYMGKTKVGLPPELKFNNWGGSLSLGHPFGATGC
 RLVMAAANRLRKEGGQYGLVAACAAGGQGHAMIVEAYPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_001281512.1, NP_001268441.1</u>
RefSeq Size:	2151 bp
RefSeq ORF:	1380 bp
Locus ID:	3032
UniProt ID:	<u>P55084</u>
Cytogenetics:	2p23.3
Protein Pathways:	Fatty acid elongation in mitochondria, Fatty acid metabolism, Metabolic pathways, Valine, leucine and isoleucine degradation
MW:	50 kDa
Gene Summary:	<p>This gene encodes the beta subunit of the mitochondrial trifunctional protein, which catalyzes the last three steps of mitochondrial beta-oxidation of long chain fatty acids. The mitochondrial membrane-bound heterocomplex is composed of four alpha and four beta subunits, with the beta subunit catalyzing the 3-ketoacyl-CoA thiolase activity. The encoded protein can also bind RNA and decreases the stability of some mRNAs. The genes of the alpha and beta subunits of the mitochondrial trifunctional protein are located adjacent to each other in the human genome in a head-to-head orientation. Mutations in this gene result in trifunctional protein deficiency. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2013]</p>